

## WHAT IS CLAIMED IS:

1           1.       A wireless control system for customizing a wireless control signal  
2 for a remote electronic system based on the location of the wireless control  
3 system, comprising:

4                   a transmitter circuit configured to transmit the wireless control  
5 signal having control data which will control the remote electronic system;

6                   an interface circuit configured to receive navigation data from a  
7 navigation data source; and

8                   a control circuit coupled to the transmitter circuit and the interface  
9 circuit configured to receive a transmit command, to receive navigation data, to  
10 determine a current location based on the navigation data, and to command the  
11 transmitter circuit to transmit a wireless control signal associated with the  
12 current location.

1           2.       The wireless control system of Claim 1, further comprising a  
2 vehicle interior element coupled to the transmitter circuit and the control circuit,  
3 wherein the wireless control system is configured for mounting in a vehicle  
4 interior.

1           3.       The wireless control system of Claim 2, wherein the vehicle interior  
2 element is an overhead console, a visor, or an instrument panel.

1           4.       The wireless control system of Claim 1, wherein the control circuit  
2 is operable in a training mode to record location data and wireless control signals  
3 in sets of data pairs, wherein each set of data pairs represents a location  
4 proximate to a remote electronic system associated with the wireless control  
5 signal stored in the data pair.

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1           5.       The wireless control system of Claim 4, wherein the control circuit  
2 is configured to search a plurality of data pairs to compare a current location to  
3 the location proximate to the remote electronic system stored in each data pair,  
4 and the control circuit is configured to command the transmitter to transmit the  
5 wireless control signal from a data pair when a location proximate to the remote  
6 electronic system for that data pair is proximate to the current location.

1           6.       The wireless control system of Claim 1, further comprising a  
2 receiver circuit configured to receive a wireless signal, wherein the control circuit  
3 is configured to identify and store a data code on the wireless signal, wherein the  
4 wireless control signal transmitted by the transmitter circuit includes the stored  
5 data code.

1           7.       The wireless control system of Claim 6, wherein the control circuit  
2 is further configured to automatically associate a location with the stored data  
3 code and to store the location in a data pair with the stored data code.

1           8.       A method of training a wireless control system on a vehicle for  
2 wireless control of a remote electronic system based on the location of the  
3 vehicle, comprising:  
4                   receiving a request to begin training from a user;  
5                   receiving a current location for the vehicle;  
6                   providing control data for a signal to be sent wirelessly for a remote  
7 electronic system; and  
8                   associating the current location for the vehicle with the wireless  
9 control signal for the remote electronic system.

1           9.       The method of Claim 8, wherein the request to begin training is  
2 received via a pushbutton.

1           10.      The method of Claim 8, further comprising receiving an indication  
2 from the user as to which of a plurality of wireless control signals is to be  
3 transmitted based on the location of the vehicle.

1           11.    The method of Claim 8, further comprising:  
2                    receiving a wireless signal having a data code; and  
3                    identifying and storing the data code on the wireless signal,  
4    whereby the wireless control system can wirelessly control the remote  
5    electronic system by transmitting the data code of the wireless signal.

1           12.    A method of transmitting a wireless control signal for controlling a  
2    remote electronic system based on the location of a vehicle, comprising:  
3                    receiving a current location for the vehicle;  
4                    comparing the current location of the vehicle with a plurality of  
5    stored locations, each location associated with a wireless control signal;  
6                    determining the wireless control signal associated with the stored  
7    location closest to the current location; and  
8                    transmitting the wireless control signal associated with the stored  
9    location closest to the current location.

1           13.    The method of Claim 12, wherein transmitting the wireless control  
2    signal associated with the stored location closest to the current location includes  
3    transmitting the wireless signal only upon determining that the current location is  
4    within a predefined distance of the stored location.

1           14.    The method of Claim 12, wherein the control data is configured to  
2    control a garage door opener.

1           15.    The method of Claim 12, wherein the step of transmitting includes  
2    transmitting a plurality of wireless control signals having different control data  
3    which will control a plurality of remote electronic systems when the comparing  
4    the current location of the vehicle with a listing of stored locations indicates that  
5    the vehicle is near the remote electronic systems.

1           16.     The method of Claim 12, wherein the navigation data source is a  
2 vehicle compass.

1           17.     A transmitter for wirelessly controlling a plurality of remote  
2 electronic systems at one of a plurality of locations, comprising:  
3                 a memory configured to store a plurality of control data messages  
4 and a plurality of locations, each control data message configured to control a  
5 different remote electronic system, the memory configured to associate each  
6 location with a plurality of control data messages;  
7                 a transmitter circuit; and  
8                 a control circuit configured to command the transmitter circuit to  
9 transmit a plurality of wireless control signals in response to a single event, each  
10 wireless control signal containing a different control data message.

1           18.     The transmitter of Claim 17, further comprising an operator input  
2 device, wherein the single event is the actuation of the operator input device by  
3 a vehicle occupant.

1           19.     The transmitter of Claim 17, wherein the control circuit is  
2 configured to receive navigation data and to determine a proximity between the  
3 transmitter and the remote electronic systems, wherein the single event is the  
4 control circuit determining that the transmitter is within a predetermined  
5 proximity of the remote electronic systems.

1           20.     The transmitter of Claim 19, further comprising an operator-  
2 actuatable switch coupled to the control circuit, wherein the control circuit is  
3 user-programmable such that the switch causes the transmitter to send a first  
4 wireless control signal having a first control data message and the control circuit  
5 automatically sends a second wireless control signal having a second control  
6 data message different than the first control data message when the control  
7 circuit determines that the transmitter is within a predetermined proximity of the  
8 remote electronic system.

1           21.     The transmitter of Claim 17, further comprising a vehicle interior  
2 element coupled to the transmitter circuit and the control circuit, wherein the  
3 transmitter is configured for mounting in a vehicle interior.

1           22.     The transmitter of Claim 21, wherein the vehicle interior element is  
2 an overhead console, a visor, or an instrument panel.

1           23.     The transmitter of Claim 17, wherein the control circuit is  
2 configured to be programmed by the user as to which of the wireless control  
3 signals are to be transmitted in response to the single event.

1           24.     The transmitter of Claim 17, further comprising a plurality of  
2 operator-actuatable switches coupled to the control circuit, wherein the control  
3 circuit is user-programmable such that a first of the switches causes the  
4 transmitter to send a first wireless control signal and a second of the switches  
5 causes the transmitter to send second and third wireless control signals  
6 simultaneously or in sequence.